

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name POLLUX	Official Number	Nationality and Port of Registry DUTCH. GEONINGEN.	Gross Tonnage	Date of Build	Port of Survey _____
Moulded Dimensions: Length 43.00 Breadth 7.70 Depth 3.20					Date of Survey JANUARY 1951.
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables .706					Particulars of Classification +100 A1.

DEPTH FOR FREEBOARD (D).

Moulded depth

Stringer plate

Sheathing on exposed deck

$$T \left(\frac{L-S}{L} \right) =$$

Depth for Freeboard (D) = **3.208**

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D-Table depth) R =**+31 m.m.**(b) Where D is less than Table depth (if allowed)
(Table depth-D) R =

If restricted by superstructures

ROUND OF BEAM CORRECTION.

Moulded Breadth (B)

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} =$$

Ship's Round of Beam =

Difference

Restricted to

$$\text{Correction} = \frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) = -6 \text{ m.m.}$$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	1				

Standard Height of Superstructure **1830 m.m.**

" " R.Q.D. _____

Deduction for complete superstructure **511 m.m.**Percentage covered $\frac{S}{L} = 43.79$ " " $\frac{S_1}{L} = 43.75$ Percentage from Table, Line A. **TIMBER. 65.34.**
(corrected for absence of forecastle (if required))Percentage from Table, Line B.
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = **6534 × 511 = 334 m.m.**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{2}$ L from A.P.		4				4	
$\frac{2}{3}$ L "		2				2	
Amidships		4				4	
$\frac{2}{3}$ L from F.P.		2				2	
$\frac{1}{2}$ L "		4				4	
F.P.		1				1	
Total							

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = -6 \text{ m.m.}$
 If limited on account of midship superstructure. **YES. NIL.**

Mean actual sheer aft =
 Mean standard sheer aft =

Mean actual sheer forward =
 Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
 L

" " aft of " =

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

TIMBER Depth to Freeboard Deck = **3.208**
 Summer freeboard = **.060**
 Moulded draught (d) = **3.148**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48}$ inches = **66 m.m. = 7 c.m.**

Addition for Winter North Atlantic Freeboard (if required) $\frac{d}{36} = 87 \text{ m.m.} = 9 \text{ c.m.}$

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40 T}$ inches= **6.445**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$$\frac{.706 + .68}{1.36} = 1.386$$

	+	-
Depth Correction	31	
Deduction for superstructures		334
Sheer correction	0	0
Round of Beam correction		6
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	31	340

31

334

0

6

31

340

- 309

Summer Freeboard = **63 m.m.**

365 m.m.
372 m.m.

AR.
30.1.51.

TIMBER SUMMER FREEBOARD amidships from ~~Centre of Disc~~ to top of Deck Line. ~~Wood~~, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc

26 c.m.

Fresh Water Line

26 c.m.

Tropical Line

20 c.m. LIMITED

Winter Line

11 c.m.Winter North Atlantic Line **BELOW****11 c.m.**

SUMMER LINE

ABOVE

20 c.m.

Tropical Fresh Water Freeboard

NIL (LIMITED)

Fresh Water

NIL

Tropical

5 c.m. (LIMITED)

Winter

15 c.m.

Winter North Atlantic

37 c.m.